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Basic Imagery Interpretation Report



**NATIONAL
PHOTOGRAPHIC
INTERPRETATION
CENTER**

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MOSKVA ABM SUPPORT FACILITY BOROVS

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**DEPLOYED AMM FACILITIES
USSR
SEPTEMBER 1969**

Declass Review by NIMA/DOD

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INSTALLATION OR ACTIVITY NAME

Moskva ABM Support Facility Borovsk

COUNTRY

UR

UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

55-18-00N 036-33-05E

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MAP REFERENCE

ACIC. USATC. Series 200. Sheet M0167-4HL. 3d ed. Nov 66. scale 1:200,000 (SECRET/

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NA

ABSTRACT

The principal elements for the assembly and checkout of the GALOSH missile appear complete at the Borovsk Antiballistic Missile (ABM) Support Complex. In the operations area, two buildings and a new rail spur are under construction and a missile-hold hardstand has been completed. In recent months an increasing number of GALOSH missile canisters have been observed at the complex.

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This report describes the activities and developments at the Borovsk ABM Support Complex as observed on [] photography []. It contains a location map, two large-scale annotated photographs, and a complete tabulation of GALOSH missile canisters observed at the facility [].

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INTRODUCTION

The Borovsk ABM Support Complex serves as the only known support base for the four active Moscow ABM launch complexes, E05, E24, E31, and E33. It is approximately 45 nautical miles (nm) southwest of Moscow and 6.5 nm northeast of the town Borovsk, USSR (Figure 1). The complex consists of two functional areas: an operations area containing the necessary facilities for the receiving, processing, and storage of GALOSH missiles; and a support and housing area which includes housing, administration, and maintenance facilities. ¹

BASIC DESCRIPTION

Operations Area

The operations area contains the facilities for assembly and checkout of GALOSH missiles and an operational support facility.

Missile-Handling Facilities

The necessary facilities for receiving, assembling, checkout, and storage of GALOSH missiles appear complete with the exception of one missile-hold hardstand. Those externally complete facilities which apparently handle GALOSH missiles or missile components are a receiving-assembly building, a storage-assembly building, a liquid propellant storage and handling facility [], and one of two missile-hold hardstands (Figure 2). The road network connecting these facilities is also complete.

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The two missile-hold hardstands, previously reported as unidentified areas, are immediately south of the liquid propellant storage and handling facility (Figure 2). The hardstands are identical in size and alignment. The eastern hardstand was probably complete [] and the western hardstand is nearing completion. Each structure consists of a large cruciform concrete hardstand bisected by an access road. An L-shaped building is attached to the northeast corner of each hardstand. A hexagonal wall partially encloses each hardstand. At the end of each of the four legs of the hardstand are five probable positioning blocks [] for GALOSH canisters. Five box-like objects [] which may serve as junction boxes, are

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attached to the wall opposite each positioning block on the eastern hardstand (Figure 3). The wall may contain a conduit for cables which connect to the GALOSH canister through the box-like objects and thereby service the environmental control system within the GALOSH canister.

GALOSH missile canisters have been observed at the eastern missile-hold hardstand

Four of these canisters were possibly the modified-type canister observed in the Moscow parade of November 1968. The most apparent external modification to the canisters paraded in Moscow is a new truncated capping section which seals the forward end of the canister. The GALOSH canisters previously observed on overhead photography and in Moscow parades had a hemispherical capping section.

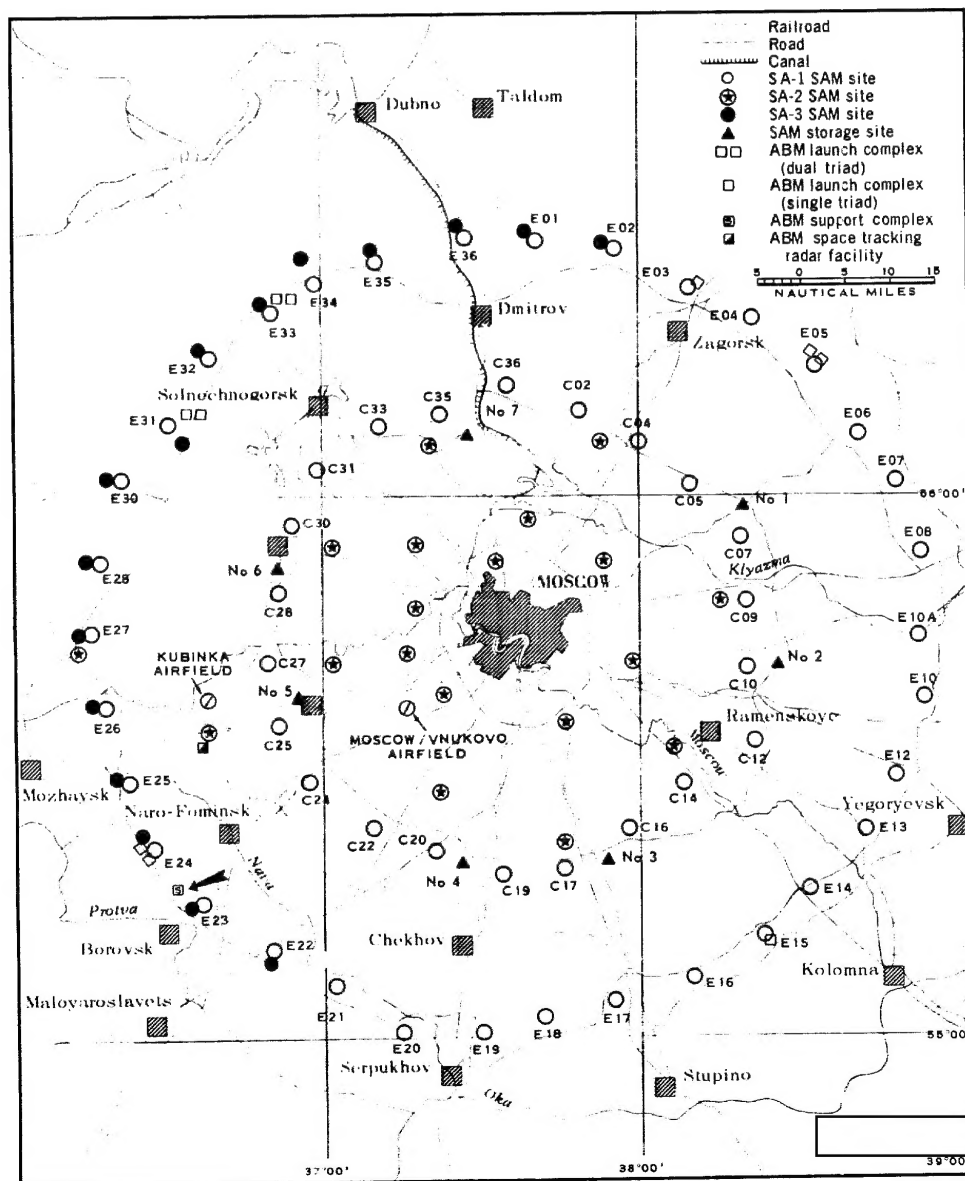


FIGURE 1. LOCATION OF BOROVSK ABM SUPPORT FACILITY, USSR

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Table 1. Chronology of GALOSH Missile Canisters Observed on
Photography at Borovsk ABM Support Facility

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Number and location of GALOSH missile canisters	
Two GALOSH canisters parked west of the missile storage building. One GALOSH canister parked west of the missile storage building. Two GALOSH canisters parked west of the missile storage building. Approximately nine GALOSH canisters parked on the eastern missile-hold hardstand.	
Approximately 15 GALOSH missile canisters parked on the eastern missile-hold hardstand.	

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Construction has advanced on the previously reported building under construction (Figure 2) immediately south of the storage-assembly building. The foundation for this building (245 by 130 feet) was observed [redacted] However, the building site remained dormant [redacted] when a roof was observed over approximately one-third of the structure. Two new possible construction support buildings (item 2, Figure 2) were erected immediately south of the above-mentioned building. A new probable building foundation (item 3, Figure 2) is immediately north of the storage-assembly building.

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Additional activity consists of the surfacing of the service road [redacted]
[redacted] Construction appears to be abandoned on the foundation for a probable T-shaped bunker northwest of the storage-assembly building.

Operational Support Facility

A third rail spur is under construction in the operational support facility (Figure 2) in the northeast portion of the operations area. The new rail spur branches from the main rail line between the two preexisting rail spurs and terminates at a flat-roofed building (65 by 20 feet). A new building (item 1, Figure 2) has been erected adjacent to the terminal section of the westernmost rail spur.

Housing and Support Area

The housing and support area consists of a main housing area, an administrative and maintenance area, and a barracks area.

Main Housing Area

Four multistory apartment buildings have been completed in the main housing area and construction has begun on another multistory apartment building. The main housing area now contains ten five-story apartment buildings, each containing 60 apartment units, and one five-story dormitory which provides approximately 180 single units.² [redacted]

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Administration and Maintenance Area

A three-story barracks has been completed and another three-story barracks is currently under construction. Four buried horizontal POL tanks and two pumphouses have been installed immediately south of the motor pool.

Barracks Area

Four single-story barracks have been dismantled and several utility buildings added in the barracks area.

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REFERENCES

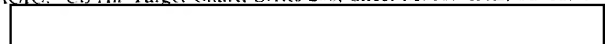


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MAPS OR CHARTS

ACIC, US Air Target Chart, Series 200, Sheet M0167-411L, 3d ed, Nov 66, scale 1:200,000 (SECRET/

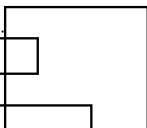
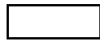
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DOCUMENTS

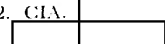
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1. NPIC,  Borovsk Antiballistic Missile Support Facility, Jan 69 (TOP SECRET 

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2. CIA,  Identification of Standard Soviet Housing Facilities, Mar 69 (TOP SECRET

REQUIREMENT

COMIREN BR-B/002-69
NPIC Project 220101

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